DEC 10 2007 W

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Ken Hanscom)
Serial No.:	09/930,120)) Art Unit) 3654
Filed:	August 14, 2001)
For:	A TAPE GUIDE FOR REDUCING LATERAL TAPE MOVEMENT))
Examiner:	Rivera, William A.)
Attorney Docket:	Q00-1027-US1 / 11198.70	<i>)</i>

Petition Pursuant to 37 CFR § 1.137 for Entry of Previously Submitted Response and Revival of Abandoned Application

Mail Stop Petition Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In response to the Notice of Abandonment mailed on October 31, 2007, transmitted herewith is a copy of the Request for Withdrawal of Final Rejection and Response to Final Rejection Pursuant to 37 C.F.R. 1.116 that was properly mailed on April 5, 2007 to "Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313" (hereinafter the "Response"). The Applicant respectfully requests entry of the previously submitted Response, withdrawal of the Final Rejection, and revival of the instant patent application. As provided below, the necessity for filing the instant Petition is not due to any fault on the part of the Applicant or his representatives. Accordingly, no fee for the instant Petition is

believed to be required.

A copy of the Response is being forwarded due to the possibility that the original Response may have not have timely reached the Examiner at the U.S. Patent & Trademark Office ("Patent Office"), despite being timely filed. A certificate of mailing certifying the mailing date of April 5, 2007, was included in the original Response. A copy of the certificate of mailing is included in the Response attached herewith. Additionally, a Return Receipt Postcard dated April 5, 2007, and stamped by the Patent Office on April 10, 2007, is also attached, evidencing timely receipt of the Response by the Patent Office.

Alternatively, should the Patent Office determine that the Applicant is somehow responsible for the Response not timely reaching its destination within the Patent Office and/or the Applicant did not take steps required to prosecute the application, the Applicant respectfully submits that any delay in the prosecution from the due date of the Response on August 8, 2007, until the filing date of the instant Petition was unintentional, as the Applicant believed the Response was timely filed based on receipt of the Return Receipt Postcard (stamped by the Patent Office on April 10, 2007). Further, the Applicant only received notice of the abandonment of the Application on November 12, 2007, and was thereafter diligent in filing the instant Petition.

If this instant Petition is granted, the Applicant respectfully petitions that the Response be considered filed as of the original mailing date of April 5, 2007. Additionally, the Applicant respectfully requests withdrawal of the Final Rejection, and revival of the instant patent application. The Applicant submits that the original Response not reaching its final destination at the Patent Office was not due to any fault of the part of the Applicant, the Assignee of the present application or the attorneys for same. As such, the Applicant

believes that no fee for filing the instant Petition is required. If, however, the Patent Office determines that the instant Petition requires that a fee for filing the Petition be paid, the Applicant hereby authorizes the Patent Office to withdraw the required fee from Deposit Account No. 50-1141.

DATED this the 4th day of December, 2007.

Respectfully submitted,

AMES P. BRODER Attorney for Applicant Registration No. 43,514

THE LAW OFFICE OF STEVEN G. ROEDER 10680 Treena St., Ste. 100 San Diego, California 92131 Telephone: (858) 635-2142

CERTIFICATE OF MAILING UNDER 37 CFR §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this the 4th day of December, 2007.

JAMES P. BRODER, Attorney for Applicant--Registration No. 43,514

Received in the US Patent and Trademark Office

In Re Application of: Hanscom

Filed: August 14, 2001 Serial No.: 09/930,120

Entitled: TAPE GUIDE FOR REDUCING LATERAL TAPE MOVEMENT

✓Transmittal Form

✓ Fee Transmittal

✓ Response to Final Rejection

Declaration of Ken Hanscom including Exhibits

✓Return Receipt Postcard

Q00-1027-US1 / 11198.70

April 5 2007

PTO/SB/17 (07-06)

Date April 5, 2007

Approved for use through 01/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction	n Act of 1995	no persons are required	to resp	ond to a collection o	of inform	nation unless it	displays a	valid OMB control number
Fees possed in posses on 12/08/2004.				Complete if Known				
			8).	Application Numb		09/930,120		
FEE TRANSMITTAL			- L	Filing Date		August 14, 2001		
For	FY 20	006		First Named Inve	ntor	Hanscom		
			$-\Gamma$	Examiner Name		Rivera, William A.		
Applicant claims small	entity status	. See 37 CFR 1.27	_	Art Unit		3654		
TOTAL AMOUNT OF PAYM	AENT (\$)	0.00		Attorney Docket	No.	Q00-1027-	US1 / 11	1198.70
METHOD OF PAYMENT	(check all	that apply)			<u></u>			
Check Credit C	Card	Money Order	None					
Deposit Account De	eposit Accoun	t Number: <u>50-1141</u>				ame: Stever		eder
For the above-identif	ied deposit	account, the Director i	s here	by authorized to:	(check	all that apply	y)	
Charge fee(s)								ept for the filing fee
Charge any a	dditional fee	(s) or underpayments	of fee	(s) Credit a	any ov	erpayments		i I
under 37 CFR WARNING: Information on this					-		form. Pro	ovide credit card
information and authorization	on PTO-2038							
FEE CALCULATION								
1. BASIC FILING, SEAR	CH, AND	EXAMINATION FE	ES					
	FILING	FEES S	EAR	CH FEES Small Entity	EXAI	MINATION Small E	FEES intity	
Application Type	Fee (\$)	Small Entity Fee (\$) F	ee (\$)		Fee	(\$) Fee		Fees Paid (\$)
Utility	300	150	500	250	20	0 100		
Design	200	100	100	50	13	0 65		
Plant	200	100	300	150	16	0 80		
Reissue	300	150	500	250	60	0 300)	
Provisional	200	100	0	0		0 0)	
2. EXCESS CLAIM FEI			-			.	o /e\	Small Entity
Fee Description							e (\$) 50	Fee (\$) 25
Each claim over 20 (including l	Reissues)	.\				200	100
Each independent cla		(including Keissues	s)				360	180
Multiple dependent claims Total Claims Extra Claims Fee (\$) Fee				Pald_(\$)		Mu	Itiple De	pendent Claims
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HP = highest number of total	d claims paid	for, if greater than 20.	F	Dold (\$)				
Indep. Claims	Extra Cla	<u>lms </u>	_	Paid (\$) 0.00				
9 - 3 or HP = 0 × 200 = 0.00 HP = 10 HP = highest number of independent claims paid for, if greater than 3.								
3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50								
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Total Sheets Extra Sheets (Milliber of Each Addition As a whole number)								
- 100 = / 50 = (round up to a whole number) x								
4. OTHER FEE(S) Non-English Specification, \$130 fee (no small entity discount)								
Other (e.g., late filing surcharge):								
SUBMITTED BY								
Signature //	2.4			Registration No.	43,514	1	Telepho	ne 858-487-4077

Name (Print/Type) James P. Broder This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PATENT – Reply under 37 CFR 1.116 Expedited Procedure – Examining Group 3654

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Hanscom)
Serial No:	09/930,120)) Art Uni
Filed:	August 14, 2001) 3654
For:	TAPE GUIDE FOR REDUCING LATERAL TAPE MOVEMENT)))
Examiner:	Rivera, William A.)
Attorney Docket:	Q00-1027-US1 / 11198.70)

REQUEST FOR WITHDRAWAL OF FINAL REJECTION AND RESPONSE TO FINAL REJECTION PURSUANT TO 37 C.F.R. § 1.116

Mail Stop AF Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Request for Withdrawal of Final Rejection

The Applicant respectfully submits that the final rejection contained in the Office Action dated February 8, 2007, is premature. The final rejection is believed to be premature because Applicant's Amendment and Response mailed on October 12, 2006 (hereinafter the "October Response") did not necessitate the new grounds for rejection for all of the previously pending claims, as provided below.

CERTIFICATE OF MAILING UNDER 37 CFR §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this the 5th day of April, 2007.

JAMES P. BRODER, Attorney for Applicant-Registration No. 43,514

The Applicant requests that final rejection of the present application be withdrawn pursuant to MPEP 706.07(a), which states in relevant part:

"Under present practice, second or any subsequent actions on the merits shall be final, except where the examiner introduces a new ground of rejection that is neither necessitated by applicant's amendment of the claims nor based on information submitted in an information disclosure statement filed during the period set forth in 37 CFR 1.97(c) with the fee set forth in 37 CFR 1.17(p)." (Emphasis added.) MPEP 706.07(a).

In particular, claims 25 and 28-34 were rejected under 35 U.S.C. § 103(a) in the Office Action mailed on September 14, 2006. The Applicant responded by traversing the rejection of claims 25 and 28-34 in the October Response. Claims 25 and 28-34 were not amended in the October Response. In the current Final Rejection, Daly (US 5,199,168) is a newly cited reference against claims 25 and 28-34, used in combination with Sawano (JP 10-106074) and/or Hikita (US 6,427,941). Daly was not relied upon in any prior Office Action, and therefore is a new ground of rejection of these claims. In other words, the new ground of rejection was not necessitated by applicant's amendment of claims 25 and 28-34 (since no amendment of these claims occurred), nor by information in a newly submitted Information Disclosure Statement. As a result, the instant final rejection is premature and should be withdrawn pursuant to MPEP §706.07(d).

MPEP §706.07(d) provides in relevant part: "If, on request by applicant for reconsideration, the primary examiner finds the final rejection to have been premature, he or she should withdraw the finality of the rejection." MPEP §706.07(d). Thus, the Applicant respectfully submits that pursuant to MPEP §706.07(a), the instant Final Rejection should be withdrawn in accordance with MPEP §706.07(d).

If, for any reason, the instant request for withdrawal of the final rejection is denied and the finality of this action is maintained, the instant Amendment and Response should be accorded expedited treatment because it is filed within two months of the date of the Final Rejection. The Applicant has complied with the provisions of 37 C.F.R. § 1.116, and requests that this Response to Final Rejection be considered after final rejection.

Current Status of All Claims in the Application:

1. (Currently Amended) A guide assembly for reducing lateral movement of a storage tape in a tape drive, the guide assembly comprising:

a rotatable first roller including a perimeter surface, a circumference, a longitudinal axis and a groove disposed into the perimeter surface, the groove having a groove length in a <u>directly direction</u> substantially along the circumference, and a groove bottom that is substantially linear in a direction along the groove length.

- 2. (Original) The guide assembly of claim 1 wherein the first roller includes a plurality of spaced-apart grooves, each of the grooves having a groove length that is less than the circumference.
- 3. (Original) The guide assembly of claim 2 wherein the grooves are aligned substantially parallel to the circumference.
- 4. (Original) The guide assembly of claim 3 wherein the grooves are semirandomly distributed on the perimeter surface.
- 5. (Original) The guide assembly of claim 2 wherein the groove length for at least one of the grooves is between approximately 0.1 percent (0.1%) and ninety percent (90%) of the circumference.
- 6. (Original) The guide assembly of claim 2 wherein the groove length for at least one of the grooves is between approximately one percent (1%) and fifty percent (50%) of the circumference.
- 7. (Original) The guide assembly of claim 2 wherein the groove length of at least one of the grooves is between approximately 0.01 inches and 1.5 inches.

- 8. (Original) The guide assembly of claim 2 wherein the percentage of the perimeter surface onto which grooves are disposed is in the range of between approximately one percent (1%) and forty percent (40%).
- 9. (Original) The guide assembly of claim 2 wherein the percentage of the perimeter surface onto which grooves are disposed is in the range of between approximately one percent (1%) and twenty-five percent (25%).
- 10. (Original) The guide assembly of claim 1 further including a roller mount, wherein the roller is rotatably mounted on the roller mount approximately on at least a portion of the longitudinal axis of the first roller.
- 11. (Original) The guide assembly of claim 1 wherein at least one of the grooves has a groove depth that varies between approximately zero inches and 0.02 inches along the length of each groove.
- 12. (Original) The guide assembly of claim 1 further comprising a second roller including a perimeter surface, a circumference, a longitudinal axis and a groove disposed into the perimeter surface, the groove having a groove length that is less than the circumference.
- 13. (Original) A tape drive including the guide assembly of claim 1, a take-up reel and a head assembly.
- 14. (Previously Presented) A guide assembly for reducing lateral movement of a magnetic tape in a tape drive, the guide assembly comprising:
 - a first roller including a perimeter surface, a circumference, a longitudinal axis and a plurality of discontinuous grooves disposed into the perimeter surface,

one of the grooves having a groove depth that varies in a direction along a length of the groove.

- 15. (Previously Presented) The guide assembly of claim 14 wherein each of the grooves has a groove depth that varies along the length of the groove.
- 16. (Original) The guide assembly of claim 15 wherein the groove length of at least one of the grooves is between approximately 0.1 percent (0.1%) and ninety percent (90%) of the circumference.
- 17. (Original) The guide assembly of claim 15 wherein the groove length of at least one of the grooves is between approximately one percent (1%) and fifty percent (50%) of the circumference.
- 18. (Original) The guide assembly of claim 15 wherein the percentage of the perimeter surface onto which grooves are disposed is in the range of between one percent (1%) and forty percent (40%).
- 19. (Original) The guide assembly of claim 15 wherein the percentage of the perimeter surface onto which grooves are disposed is in the range of between one percent (1%) and twenty-five percent (25%).
- 20. (Original) The guide assembly of claim 15 wherein each of the grooves is aligned substantially parallel to the circumference.
- 21. (Original) The guide assembly of claim 15 wherein the grooves are semirandomly distributed on the perimeter surface.
- 22. (Original) The guide assembly of claim 14 further comprising a second roller including a perimeter surface, a circumference, a longitudinal axis and a groove

disposed into the perimeter surface, the groove having a groove depth that varies along the length of the groove.

- 23. (Original) The guide assembly of claim 14 wherein the groove depth varies between approximately zero inches and 0.05 inches.
- 24. (Original) A tape drive including the guide assembly of claim 14 and a take-up reel and a head assembly.
- 25. (Original) A guide assembly for reducing lateral movement of a magnetic tape of a tape drive, the guide assembly comprising:

a first roller having a perimeter surface, a circumference and a plurality of spaced-apart discontinuous grooves disposed into the perimeter surface, each groove being positioned substantially parallel to the circumference of the roller, each groove having (i) a groove depth that varies between approximately zero inches and 0.02 inches, (ii) a groove length of between approximately 0.1 inches and 0.3 inches, and (iii) a groove width of between approximately 0.005 inches and 0.015 inches.

26. (Previously Presented) A method of manufacturing a tape roller of a guide assembly for a tape drive, the method comprising the steps of:

providing a rotatable roller having a circumference and a perimeter surface; and

forming a groove into the perimeter surface so that the groove is tapered to have a groove depth that varies in a direction along a length of the groove.

27. (Original) The method of claim 26 wherein the step of forming a groove includes forming a plurality of spaced-apart grooves into the perimeter surface so that each groove has a groove length that is less than the circumference.

28. (Original) A method of manufacturing a roller for use in a guide assembly of a tape drive, the method comprising the steps of:

providing a roller portion having a circumference and a perimeter surface; and

forming a groove into the perimeter surface so that the groove has a groove depth that varies along the length of the groove.

- 29. (Original) The method of claim 28 wherein the step of forming a groove includes forming a plurality of spaced-apart grooves into the perimeter surface so each groove has a groove depth that varies along the length of the groove.
- 30. (Previously Presented) A method of reducing lateral tape motion of a storage tape adapted for use in a tape drive, the method comprising the step of:

providing a tape drive having a guide assembly that includes a rotatable first roller having a perimeter surface, a circumference, and a groove disposed into the perimeter surface, the groove having a groove length that is less than the circumference.

- 31. (Original) The method of claim 30 including the step of rotatably mounting the first roller on a roller mount so that the storage tape passes over at least a portion of the perimeter surface of the first roller during operation of the tape drive.
- 32. (Original) The method of claim 31 including the step of providing a second roller having a perimeter surface, a circumference, and a groove disposed into the perimeter surface, the groove having a groove length that is less than the circumference; wherein the storage tape passes over at least a portion of the perimeter surface of the second roller during operation of the tape drive.
- 33. (Previously Presented) A guide assembly for reducing lateral movement of a storage tape in a tape drive, the guide assembly comprising:

a first roller including a perimeter surface, a circumference, a longitudinal axis and a plurality of spaced apart grooves disposed into the perimeter surface, each of the grooves having a groove length that is less than the circumference and at least one of the grooves having a groove length of between approximately 0.01 inches and 1.5 inches.

34. (Previously Presented) A guide assembly for reducing lateral movement of a storage tape in a tape drive, the guide assembly comprising:

a first roller including a perimeter surface, a circumference, a longitudinal axis and a groove disposed into the perimeter surface, the groove having a groove length that is less than the circumference, and a groove depth that varies between approximately zero inches and 0.02 inches along the length of the groove.

- 35. (Previously Presented) The guide assembly of claim 1 wherein the percentage of the perimeter surface onto which grooves are disposed is greater than 30 percent.
- 36. (Currently Amended) A method of manufacturing a tape roller of a tape drive, the method comprising the step of:

rotatably mounting a tape roller to a drive housing of the tape drive, the tape roller including a groove having a groove depth that varies over a length of the groove.

- 37. (Previously Presented) The method of claim 36 wherein the groove has a groove bottom that is substantially linear in a direction along a circumference of the tape roller.
- 38. (Previously Presented) The method of claim 37 wherein a portion of the groove bottom is substantially planar.

REMARKS

Claims 1-38 are pending in the above-captioned patent application after this amendment. Claims 1-38 have been rejected. The Applicant respectfully traverses the rejection claims 1-38. The Applicant has amended claims 1 and 36 to correct clerical errors for the purpose of expediting the patent application process in a manner consistent with the goals of the Patent Office pursuant to 65 Fed. Reg. 54603 (September 8, 2000), even though the Applicant believes that the previously pending claims were allowable.

Support for the amendments to the claims can be found throughout the originally filed application, including the originally filed claims, the drawings and the specification.

No new matter is believed to have been added by this amendment. Consideration of the pending application is respectfully requested.

Rejections Under 35 U.S.C. § 112

Claims 1-13 and 35-38 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. As set forth above, claims 1 and 36 have been amended to correct obvious clerical errors. Therefore, the rejection is believed to have been overcome.

Rejections Under 35 U.S.C. § 102

Claims 1, 10 and 13 are rejected under 35 U.S.C. § 102(b) as being anticipated by Daly (US 5,199,168). Further, claims 1-4, 10 and 26-27 are rejected under 35 U.S.C. §102(b) as being anticipated by Hikita (US 6,427,941). The Applicant respectfully traverses the rejection of claims 1-4, 10, 13 and 26-27 on the grounds that Daly does not teach or suggest the features of the rejected claims, and that Hikita is not prior art relative to the rejected claims, as set forth in greater detail below.

The Applicant respectfully submits that this rejection would more appropriately be made, if at all, under 35 U.S.C. §102(e), and <u>not</u> under 35 U.S.C. §102(b) since the filing date of the instant application predates the issue date of Hikita.

Daly is directed toward a tachometer roller R6 having a single helical thread groove 50. (Col. 4, lines 53-54). The groove 50 is spiral-shaped. (Fig. 3). The groove 50 is angled relative to the circumference of the roller R6 at an oblique angle theta, which causes migration of the resulting damage tracks 124 relative to the longitudinal tracks 78. (Col. 5, lines 3-11; Fig. 6).

In other words, the groove 50 is not parallel to the circumference of the roller. Moreover, the bottom of the groove 50 is necessarily curved to follow the contour of the circumference. Stated another way, Daly does not teach or suggest that the groove 50 is oriented in the direction of the circumference (as evidenced by the "angle theta" that is required).

As set forth in the specification of the present application, the type of roller taught by Daly can be problematic. More specifically, "attempts to vent the air include providing rollers with continuous grooves that are oriented slightly obliquely or helically to the direction of tape travel. Such rollers have not been entirely satisfactory, however. Specifically, the grooves can cause print through because of the repetitious pattern. Further, the oblique grooves can cause a condition known as 'directional continuity shift' or 'DC shift'. DC shift occurs when orientation of the groove pattern tends to cause the tape to move laterally in one direction, i.e. perpendicular to the direction of the moving tape." (Specification, page 4, lines 13-20).

Further, Daly does not teach or suggest that the bottom of the groove 50 is substantially linear. Rather, the groove bottom is explicitly curved because the roller is curved and the groove has a uniform depth.

In contrast to Daly, amended claim 1 is directed toward a guide assembly that requires "a rotatable first roller including a perimeter surface, a circumference, a longitudinal axis and a groove disposed into the perimeter surface, the groove having a groove length in a direction substantially along the circumference, and a groove bottom that is substantially linear in a direction along the groove length." These features are not taught or suggested by the cited references. Thus, Daly would not support a rejection of amended claim 1 under 35 U.S.C. §102(b). The Applicant submits that claim 1 is allowable. Because claims 10 and 13 depend from claim 1, Daly would likewise not

support a rejection of these claims under 35 U.S.C. §102(b), and the rejection under 35 U.S.C. §102(b) of claims 1, 10 and 13 that is based on Daly should be withdrawn.

Additionally, the Applicant respectfully submits that Hikita et al may not be used as prior art in any subsequent office action given the ability of the Applicant to antedate this reference as more fully set forth in the declaration pursuant to 37 CFR §1.131 of inventor, Ken Hanscom, filed concurrently herewith. Because the Applicant submits that Hikita does not specifically claim the features of the rejected claims, a declaration pursuant to 37 CFR § 1.131 is proper.

37 CFR §1.131 provides when "any claim of an application ... is rejected, the inventor of the subject matter of the rejected claim, ... may submit an appropriate oath or declaration to establish invention of the subject matter of the rejected claim prior to the effective date of the reference or activity on which the rejection is based. The effective date of a U.S. Patent, ... is the earlier of its publication date or date that it is effective as a reference under 35 U.S.C. §102(e). ... (b) The showing of facts shall be such, in character and weight, as to establish reduction to practice prior to the effective date of the reference, or conception of the invention prior to the effective date of the reference coupled with due diligence from prior to said date to a subsequent reduction to practice or to the filing of the application. ...".

As set forth more fully in the accompanying declaration of Ken Hanscom (hereinafter "Declaration of Hanscom") and the attached exhibits, various species of each of the rejected claims were reduced to practice in the United States prior to the earliest effective application filing date of Hikita of October 10, 2000.

More specifically, prior to October 10, 2000, Ken Hanscom reduced to practice in the United States one or more embodiments of each of the following:

(a) A guide assembly for reducing lateral movement of a storage tape in a tape drive, the guide assembly comprising a rotatable first roller including a perimeter surface, a circumference, a longitudinal axis and a groove disposed into the perimeter surface, the groove having a groove length in a direction substantially along the circumference, and a groove bottom that is substantially linear in a direction along the groove length; (Paragraph 2a of the Declaration of Hanscom);

- (b) A guide assembly for reducing lateral movement of a magnetic tape in a tape drive, the guide assembly comprising a first roller including a perimeter surface, a circumference, a longitudinal axis and a plurality of discontinuous grooves disposed into the perimeter surface, one of the grooves having a groove depth that varies in a direction along a length of the groove; (Paragraph 2b of the Declaration of Hanscom);
- (c) A guide assembly for reducing lateral movement of a magnetic tape of a tape drive, the guide assembly comprising a first roller having a perimeter surface, a circumference and a plurality of spaced-apart discontinuous grooves disposed into the perimeter surface, each groove being positioned substantially parallel to the circumference of the roller, each groove having (i) a groove depth that varies between approximately zero inches and 0.02 inches, (ii) a groove length of between approximately 0.1 inches and 0.3 inches, and (iii) a groove width of between approximately 0.005 inches and 0.015 inches; (Paragraph 2c of the Declaration of Hanscom);
- (d) A method of manufacturing a tape roller of a guide assembly for a tape drive, the method comprising the steps of providing a rotatable roller having a circumference and a perimeter surface and forming a groove into the perimeter surface so that the groove is tapered to have a groove depth that varies in a direction along a length of the groove; (Paragraph 2d of the Declaration of Hanscom);
- (e) A method of manufacturing a roller for use in a guide assembly of a tape drive, the method comprising the steps of providing a roller portion having a circumference and a perimeter surface and forming a groove into the perimeter surface so that the groove has a groove depth that varies along the length of the groove; (Paragraph 2e of the Declaration of Hanscom);
- (f) A method of reducing lateral tape motion of a storage tape adapted for use in a tape drive, the method comprising the step of providing a tape drive having a guide assembly that includes a rotatable first roller having a perimeter surface, a circumference, and a groove disposed into the perimeter surface, the groove having a groove length that is less than the circumference; (Paragraph 2f of the Declaration of Hanscom);

- (g) A guide assembly for reducing lateral movement of a storage tape in a tape drive, the guide assembly comprising a first roller including a perimeter surface, a circumference, a longitudinal axis and a groove disposed into the perimeter surface, the groove having a groove length that is less than the circumference, and a groove depth that varies between approximately zero inches and 0.02 inches along the length of the groove; (Paragraph 2g of the Declaration of Hanscom); and
- (h) A method of manufacturing a tape drive, the method comprising the step of rotatably mounting a tape roller to a drive housing of the tape drive, the tape roller including a groove having a groove depth that varies over a length of the groove; (Paragraph 2h of the Declaration of Hanscom).

As a result, Hikita may not be used as prior art in any subsequent Office Action in this matter. Moreover, the Applicant respectively submits that Hikita substantively is not believed to teach or suggest the features of the rejected claims. However, in view of the ability of the Applicants to antedate of Hikita pursuant to 37 CFR 1.131, any substantive arguments regarding why Hikita does not teach the features and/or steps of the rejected claims are believed to be moot. Thus, an explanation of this rationale is limited to what was presented in the applicant's previous Amendment and Response to Office Action. In the event the Declaration pursuant to 37 CFR 1.131 is found for some unforeseen reason by the Patent Office not to be persuasive, the Applicant hereby reserve his rights to substantively traverse the rejected claims in view of Hikita.

Accordingly, the Applicants respectfully submit that the rejection of claims 1-4, 10 and 26-27 by the Patent Office that relies on Hikita should be withdrawn. Further, Hikita should not be used in any subsequent rejection of the claims in this application.

Rejections Under 35 U.S.C. § 103

Claims 1-4, 10, 12-13 and 30-32 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Daly in view of Sawano et al. (JP 10-106074). Further, claims 1-4, 10, 12-13, 26-27 and 30-32 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Daly in view of Hikita. Additionally, claims 14-15, 20-22, 24, 28-29, 34 and 36-38 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Daly in view of Sawano et

al. and further in view of Hikita. Moreover, claims 5-9, 11, 33 and 35 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Daly in view of Sawano et al. as applied to claims 1-4, 10, 12-13, 26-27 and 30-32. Further, claims 16-19, 23 and 25 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Daly in view of Sawano et al. and Hikita as applied to claims 14-15, 20-22, 24, 28-29 and 34. In addition, claims 5-9, 11-12 and 35 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Hikita as applied to claims 1-4 and 10 or Hikita as applied to claims 1-4, 10, 14-15, 20-21 and 26-27.

The Applicant respectfully traverses the rejection under 35 U.S.C. § 103(a) of claims 1-38 on the grounds that Hikita cannot be used as prior art in this matter (as set forth above), because the cited references, either individually or in combination, do not teach or suggest the features of the rejected claims, and because there is no motivation to combine the references in the manner suggested by the Patent Office.

As set forth above, each of the above rejections under 35 U.S.C. § 103(a) that relies on Hikita should be withdrawn because Hikita may not be used as prior art in this matter. Thus, the rejections of claims 1-4, 10, 12-32, 34 and 36-38 that rely on Hikita should be withdrawn. Consequently, the only rejections that will be substantively addressed will be rejections that do not rely on Hikita, namely, the rejection of claims 1-13, 30-33 and 35.

In addition to the discussion of Daly provided above, the Applicant submits that the roller disclosed in Daly is designed to move the trapped air along the helical "air vent groove" to one of the edges, where the captured air can then escape. "The vent groove terminates in respective circumferential grooves formed in respective edge portions of the roller." (See Abstract). In other words, the continuous helical groove all the way to the edge is what allows Daly to function in the manner disclosed, thereby emitting the trapped air. Daly does <u>not</u> teach or suggest having abbreviated grooves that do not terminate at one of the edge grooves, <u>or</u> that this would even be a prudent idea. In fact, this would defeat the stated purpose of Daly of venting the air to the edges of the roller.

Sawano is directed toward a non-rotating guide pin 1 having crevices 1b in the surface 1a of the guide pin 1. (Figs. 1 and 2). Sawano does not teach or suggest that the bottom of any of the crevices is substantially linear in a direction along the

circumference. In fact, there does not appear to be any discussion of the bottom of the crevices. Therefore, even assuming that there was some suggestion to combine Daly and Sawano, which there is not, the combination does not yield the claimed invention. As set forth above, the bottom of the groove in Daly is explicitly curved.

The requirements of claim 1 are set forth above. The cited combination of references does not teach or suggest the features of claim 1, and therefore does not support a rejection of claim 1. Because claims 2-13 and 35 depend from claim 1, the cited combination of references likewise does not support a rejection of these claims.

In contrast to the cited combination of references, claim 30 requires the step of "providing a tape drive having a guide assembly that includes a rotatable first roller having a perimeter surface, a circumference, and a groove disposed into the perimeter surface, the groove having a groove length that is less than the circumference." This step is not taught or suggested by the cited references. Therefore, a rejection of claim 30 that is based on the cited references is not supported, and should be withdrawn. Because claims 31-32 depend from claim 30, a rejection of these claims is likewise unsupported, and should be withdrawn.

Further, claim 33 requires "a first roller including a perimeter surface, a circumference, a longitudinal axis and a plurality of spaced apart grooves disposed into the perimeter surface, each of the grooves having a groove length that is less than the circumference and at least one of the grooves having a groove length of between approximately 0.01 inches and 1.5 inches." These features are not taught or suggested by the cited references. Therefore, a rejection of claim 33 that is based on the cited references is not supported, and should be withdrawn.

Additionally, there is no motivation to combine these references in the manner suggested by the Patent Office. More specifically, there is no motivation to use the features of the guide pin taught by Sawano in Daly's roller. "The teaching or suggestion to make the claimed combination and the <u>reasonable expectation of success</u> must both be found in the prior art, not in the applicant's disclosure." *In re Vaeck*, 947 F.2d 488, 20 USPQ2d 1438 (Fed. Cir. 1991; Emphasis added). In the present case, neither is found. Daly does not indicate or suggest that having multiple grooves that are less than the length

of the circumference are advantageous or necessary. In fact, including multiple disconnected grooves that do not encircle the roller of Daly would not move the trapped air to the edges of the roller. Thus, there is no clear benefit of adding multiple shorter grooves to the roller of Daly. Stated another way, one skilled in the art reading Daly would not be motivated to add multiple grooves that do not extend around the circumference, or that are not substantially parallel with the circumference because the trapped air would not be moved to the edges where it can escape.

Even if the combination of references taught every element of the claimed invention (which it does not, as explained above), without a motivation to combine, a rejection based on a prima facie case of obviousness has been held improper. *In re Rouffet*, 149 F.3d 1350, 1357, 47 USPQ2d 1453, 1457-58 (Fed. Cir. 1998). Further, the "mere fact that references <u>can</u> be combined or modified does not render the resultant combination obvious unless the prior art also <u>suggests the desirability of the combination</u>." *In re Mills*, 916 F.2d 680, 16 USPQ2d 1430 (Fed. Cir. 1990; emphasis original and added).

Moreover, neither of the references teaches that there would be a <u>reasonable expectation of success</u> in combining the roller of Daly with the crevices of Sawano. The apparatus taught by Daly appears to operate only with a continuous helical groove. In other words, it is not obvious how these two devices would be effectively combined. Thus, one skilled in the art would not expect that combining the roller in Daly with the crevice pattern in Sawano would result in a properly working device.

Additionally, the "references must be viewed without the benefit of impermissible hindsight vision afforded by the claimed invention ..." Hodosh v. Block Drug Co., Inc. 786 F.2d 1136, 1143, n. 5, 229 USPQ 182, 187, n. 5 (Fed. Cir. 1986). Moreover, the Federal Circuit has stated, "[i]t is difficult but necessary that the decisionmaker forget what he or she has been taught ... about the claimed invention and cast the mind back to the time the invention was made (often as here many years), to occupy the mind of one skilled in the art who is presented only with the references, and who is normally guided by the then-accepted wisdom in the art." W.L. Gore & Associates, Inc. v. Garlock, Inc. 721 F.2d 1540, 220 USPQ 303, 313 (Fed. Cir. 1983), cert. denied, 469 U.S. 851 (1984). In summary, the motivation to combine the roller in Daly with the

crevices in Sawano can be found only in the teachings of the present application. This constitutes impermissible hindsight, which is to be avoided when applying 35 U.S.C. § 103.

Claim 36 is directed toward a method that requires "rotatably mounting a tape roller to a drive housing of the tape drive, the tape roller including a groove having a groove depth that varies over a length of the groove." This step is not taught or suggested by the cited references, as explained in greater detail above. Therefore, claim 36 is believed to be allowable. Because claims 37-38 depend from claim 36, they are also believed to be allowable.

Conclusion

In conclusion, the Applicant respectfully asserts that the final rejection by the Patent Office is premature and should be withdrawn. Further, the Applicant submits that claims 1-38 are allowable for the reasons set forth above, and that the application is now in a condition for allowance. Accordingly, an early notice of allowance is respectfully requested. The Examiner is requested to call the undersigned at 858-487-4077 for any reason that would advance the instant application to issue.

Dated this the 5th day of April, 2007.

Respectfully submitted,

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